

AMENDMENTS TO THE CLAIMS

Claims 1-21 (canceled).

Claim 22 (currently amended): An anti-idiotypic antibody to an idiotypic of a second antibody, wherein said idiotypic of said second antibody specifically binds to an MN protein epitope of an MN protein, wherein said anti-idiotypic antibody comprises an internal image corresponding to said epitope of said MN protein, and wherein said MN protein is encoded by a nucleic acid selected from the group consisting of:

(a) SEQ ID NO: 1;

~~(b) polynucleotides that hybridize under stringent conditions of 50% formamide at 42 degrees C to SEQ ID NO: 1's complement; and~~

[[(c)]] (b) polynucleotides that differ from SEQ ID NO: 1 ~~or from the polynucleotide sequences of (b)~~ due to the degeneracy of the genetic code.

Claim 23 (previously presented): An anti-idiotypic antibody according to Claim 22, wherein said second antibody that is specific for said MN protein epitope, is either the M75 monoclonal antibody secreted from the hybridoma VU-M75, which

was deposited at the American Type Culture Collection under ATCC No. HB 11128, or the MN12 monoclonal antibody that is secreted from the hybridoma MN 12.2.2, which was deposited at the American Type Culture Collection under ATCC No. HB 11647.

24. (withdrawn): An anti-anti-idiotypic antibody to the anti-idiotypic antibody according to Claim 22.

Claim 25 (withdrawn): An anti-anti-idiotypic antibody to the anti-idiotypic antibody according to Claim 23.

Claim 26 (withdrawn): An anti-anti-idiotypic antibody according to Claim 24 which is polyclonal.

Claim 27 (withdrawn): An anti-anti-idiotypic antibody according to Claim 25 which is polyclonal.

Claims 28 and 29 (canceled).

Claim 30 (currently amended): An anti-idiotypic antibody to an idiotypic of a second antibody, wherein said idiotypic of said second antibody specifically binds to an epitope of an MN polypeptide, wherein said anti-idiotypic

antibody comprises an internal image corresponding to said epitope of said MN polypeptide, wherein said epitope of said MN polypeptide is an epitope found in the MN protein encoded by SEQ ID NO: 1 and wherein said MN polypeptide is encoded by a nucleic acid that comprises a polynucleotide containing at least 29 nucleotides, said nucleic acid being selected from the group consisting of:

(a) SEQ ID NO: 1;

~~(b) polynucleotides that hybridize under stringent conditions of 50% formamide at 42 degrees C to SEQ ID NO: 1's complement, and~~

[[[(c)]] (b) polynucleotides that differ from SEQ ID NO: 1 ~~or from the polynucleotide sequences of (b)~~ due to the degeneracy of the genetic code.

Claim 31 (previously presented): The anti-idiotypic antibody according to Claim 30, wherein said second antibody that is specific to said MN polypeptide epitope is either the M75 monoclonal antibody secreted from the hybridoma VU-M75, which was deposited at the American Type Culture Collection under ATCC No. HB 11128, or the MN12 monoclonal antibody that is secreted from the hybridoma MN 12.2.2, which was deposited at the American Type Culture Collection under ATCC No. HB 11647.

Claim 32 (withdrawn): An anti-anti-idiotypic antibody to the anti-idiotypic antibody according to Claim 30.

Claim 33 (withdrawn): An anti-anti-idiotypic antibody to the anti-idiotypic antibody according to Claim 31.

Claim 34 (withdrawn): An anti-anti-idiotypic antibody according to Claim 32 which is polyclonal.

Claim 35 (withdrawn): An anti-anti-idiotypic antibody according to Claim 33 which is polyclonal.

Claim 36 (previously presented): The anti-idiotypic antibody according to Claim 30 wherein said nucleic acid comprises a polynucleotide containing at least 50 nucleotides.

Claim 37 (previously presented): The anti-idiotypic antibody according to Claim 30 wherein said nucleic acid comprises a polynucleotide containing at least 100 nucleotides.

Claim 38 (previously presented): The anti-idiotypic antibody according to Claim 30 wherein said nucleic acid comprises a polynucleotide containing at least 150 nucleotides.

Claim 39 (withdrawn): An anti-anti-idiotypic antibody to the anti-idiotypic antibody according to Claim 36.

Claim 40 (withdrawn): An anti-anti-idiotypic antibody to the anti-idiotypic antibody according to Claim 37.

Claim 41 (withdrawn): An anti-anti-idiotypic antibody to the anti-idiotypic antibody according to Claim 38.

Claim 42 (currently amended): An anti-idiotypic antibody to an idiotype of a second antibody, wherein said idiotype of said second antibody specifically binds to an epitope of an MN polypeptide, wherein said anti-idiotypic antibody comprises an internal image corresponding to said epitope of said MN polypeptide, wherein said epitope of said MN polypeptide is an epitope found in the MN protein encoded by SEQ ID NO: 1, and wherein said MN polypeptide is encoded by a nucleic acid that comprises a polynucleotide containing at least

25 nucleotides, said nucleic acid being selected from the group consisting of:

(a) SEQ ID NO: 1;

~~(b) polynucleotides that hybridize under stringent conditions of 50% formamide at 42 degrees C to SEQ ID NO: 1's complement; and~~

[[(c)]] (b) polynucleotides that differ from SEQ ID NO: 1 ~~or from the polynucleotide sequences of (b)~~ due to the degeneracy of the genetic code.

Claim 43 (previously presented): The anti-idiotypic antibody according to Claim 42 wherein said nucleic acid comprises a polynucleotide containing at least 27 nucleotides.

Claim 44 (withdrawn): An anti-anti-idiotypic antibody to the anti-idiotypic antibody according to Claim 42.

Claim 45 (withdrawn): An anti-anti-idiotypic antibody to the anti-idiotypic antibody according to Claim 43.

Claim 46 (previously presented): The anti-idiotypic antibody according to Claim 22 wherein said MN protein is encoded by SEQ ID NO: 1 or by a fragment of SEQ ID NO: 1.

Claim 47 (previously presented): The anti-idiotypic antibody according to Claim 30 wherein said nucleic acid has a nucleotide sequence from SEQ ID NO: 1.

Claim 48 (previously presented): The anti-idiotypic antibody according to Claim 42 wherein said nucleic acid has a nucleotide sequence from SEQ ID NO: 1.

Claim 49 (withdrawn): An anti-anti-idiotypic antibody to the anti-idiotypic antibody according to Claim 46.

Claim 50 (withdrawn): An anti-anti-idiotypic antibody to the anti-idiotypic antibody according to Claim 47.

Claim 51 (withdrawn): An anti-anti-idiotypic antibody to the anti-idiotypic antibody according to Claim 48.

Claim 52 (canceled).

Claim 53 (new): The anti-idiotypic antibody according to Claim 22 where said second antibody is a biologically active antibody fragment.

Claim 54 (new): The anti-idiotypic antibody according to Claim 30 where said second antibody is a biologically active antibody fragment.

Claim 55 (new). The anti-idiotypic antibody according to Claim 42 where said second antibody is a biologically active antibody fragment.